

IN THE CLAIMS:

Claim 1 (currently amended): A styrene resin composition comprising a linear polystyrene having a weight average molecular weight of 200,000 to 350,000 and a multibranched polystyrene having a weight average molecular weight of 1,000,000 to 10,000,000, which has ~~[[an]]~~ a weight average molecular weight of 250,000 to 700,000, and a melt mass-flow rate (MFR) and melt tension (MT) which satisfy formulas (1) and (2) respectively:

$$\text{MFR (g/10 min)} \geq 45 \times \exp(-0.1 \times \text{Mw} \times 10^{-4}) \quad (1)$$

(wherein, MFR and Mw denote a melt mass-flow rate as measured at 200°C under a load of 49N in accordance with JIS K7210:99 and a weight average molecular weight respectively for said styrene resin composition),

$$\text{MT (g)} \geq 0.07\text{Mw} \times 10^{-4} + 1.8 \quad (2)$$

(wherein, MT and Mw denote a melt tension and a weight average molecular weight respectively for said styrene resin composition).

Claim 2 (original): A styrene resin composition according to claim 1, wherein said multibranched polystyrene comprises a branched structure containing electron attracting groups and tertiary carbon atoms in which 3 bonds other than a bond bonded to an electron attracting group are all bonded to other carbon atoms.

Claim 3 (original): A styrene resin composition according to claim 2, wherein a quantity of said electron attracting groups within said branched structure is within a range from 2.5×10^{-4} to 5.0×10^{-1} millimols per 1 g of said multibranched polystyrene.

Claim 4 (original): A styrene resin composition according to claim 1, wherein said multibranched polystyrene is a copolymer of

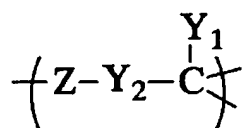
(A) a multibranched macromonomer having a branched structure containing electron attracting groups and tertiary carbon atoms in which 3 bonds other than a bond bonded to an electron attracting group are all bonded to other carbon atoms, and double bonds bonded directly to an aromatic ring, and

(B) styrene.

Claim 5 (original): A styrene resin composition according to claim 4, wherein a degree of branching of said multibranched macromonomer is within a range from 0.3 to 0.8, and a quantity of said double bonds bonded directly to an aromatic ring is within a range from 0.1 to 5.5 millimols per 1 g of said multibranched macromonomer.

Claim 6 (currently amended): A styrene resin composition according to claim 4, wherein said multibranched macromonomer has a branched chain comprising a repeating unit represented by a general formula (I) shown below:

General formula (I)



[wherein, Y_1 denotes an electron attracting group selected from a group consisting of -CN, -NO₂, -CONH₂, -CON(R)₂, -SO₂CH₃, and -P(=O)(OR)₂ (wherein R denotes an alkyl group or an aryl group), Y_2 denotes an arylene group, -O-CO- or -NH-CO-, and Z denotes a group selected from a group consisting of -(CH₂)_nO-, -(CH₂CH₂O)_n-, and -(CH₂CH₂CH₂O)_n-, providing that Y_2 is either -O-CO- or -NH-CO-, Z denotes -(CH₂)_n-, -(CH₂)_nAr-, -(CH₂)_nO-Ar-, -(CH₂CH₂O)_n-Ar-, or -(CH₂CH₂CH₂O)_n-Ar- (wherein Ar denotes an ~~aryl~~ arylene group and n is an integer from 1-12)].

Claim 7 (currently amended): A process for producing a styrene resin composition according to claim 1 by ~~carrying~~ carrying out a radical polymerization of (A) a multibranched macromonomer having a branched structure containing electron attracting groups and tertiary carbon atoms in which 3 bonds other than a bond connected

to an electron attracting group are all bonded to other carbon atoms, and double bonds connected directly to an aromatic ring, and

(B) styrene.

Claim 8 (original): A styrene resin composition according to claim 1, wherein said multibranched polystyrene comprises a branched structure containing a repeating structural unit selected from a group consisting of ester linkages, ether linkages and amide linkages.

Claim 9 (original): A styrene resin composition according to claim 8, which is a copolymer of

(A) a multibranched macromonomer having a branched structure containing a repeating structural unit selected from a group consisting of ester linkages, ether linkages and amide linkages, and double bonds at branch terminals, and

(B) styrene.

Claim 10 (original): A styrene resin composition according to claim 9, wherein a degree of branching of said multibranched macromonomer is within a range from 0.3 to 0.8, and a quantity of said double bonds at branch terminals is within a range from 0.1 to 5.5 millimols per 1 g of said multibranched macromonomer.

Serial Number: 10/501,920

OA dated 4/20/05

Amdt. dated 7/20/05

Claim 11 (currently amended): A process for producing a styrene resin composition according to claim 8 by ~~carrying~~ carrying out a radical polymerization of

(A) a multibranched macromonomer having a branched structure containing a repeating structural unit selected from a group consisting of ester linkages, ether linkages and amide linkages, and double bonds at branch terminals, and

(B) styrene.